

FIGURE 1

pICLIP_S/HPV16_{C+50-68+GUU}

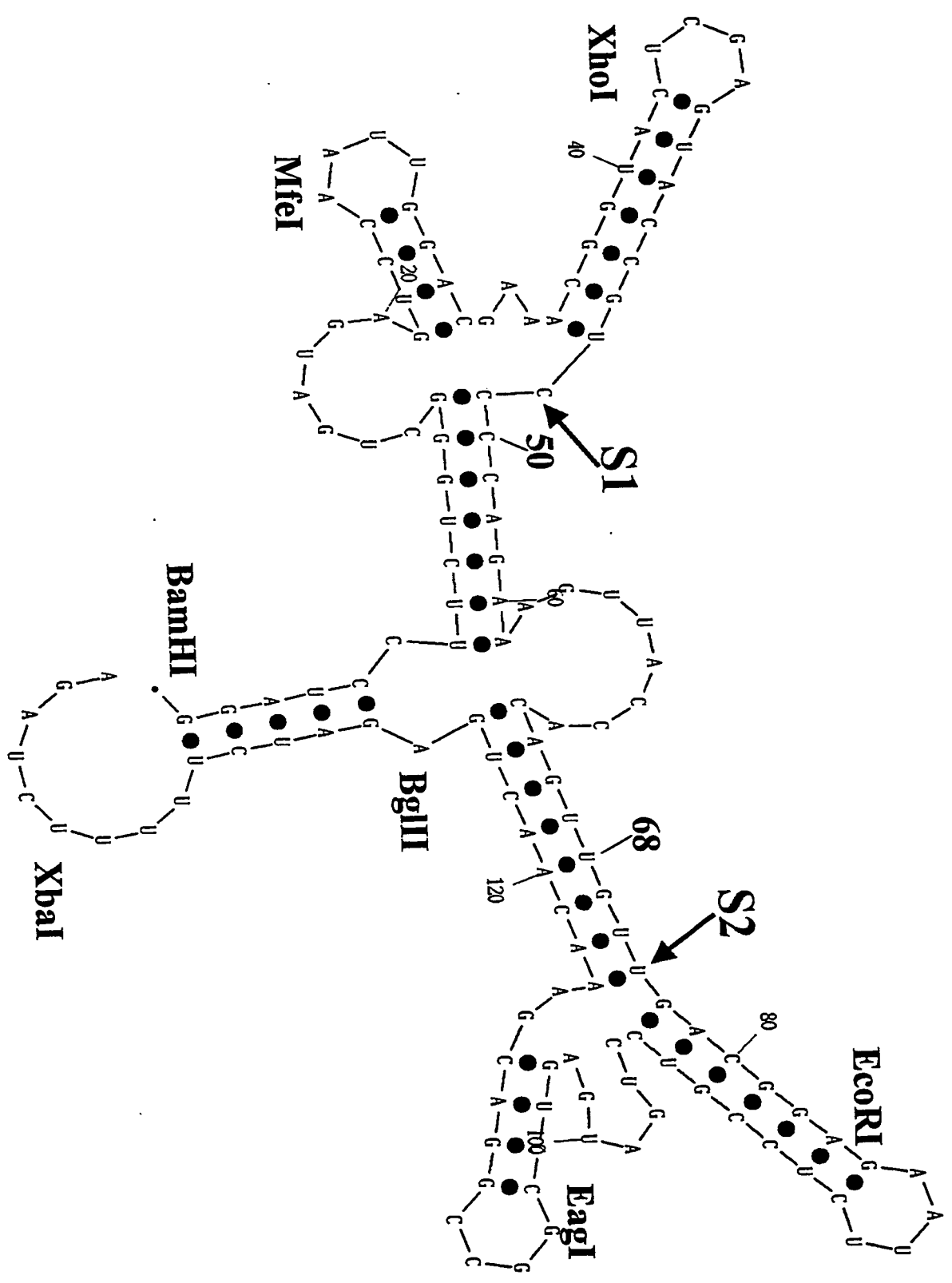


FIGURE 2

p1CLIP_{AS}/HPV16_{C+68-50+GUU}

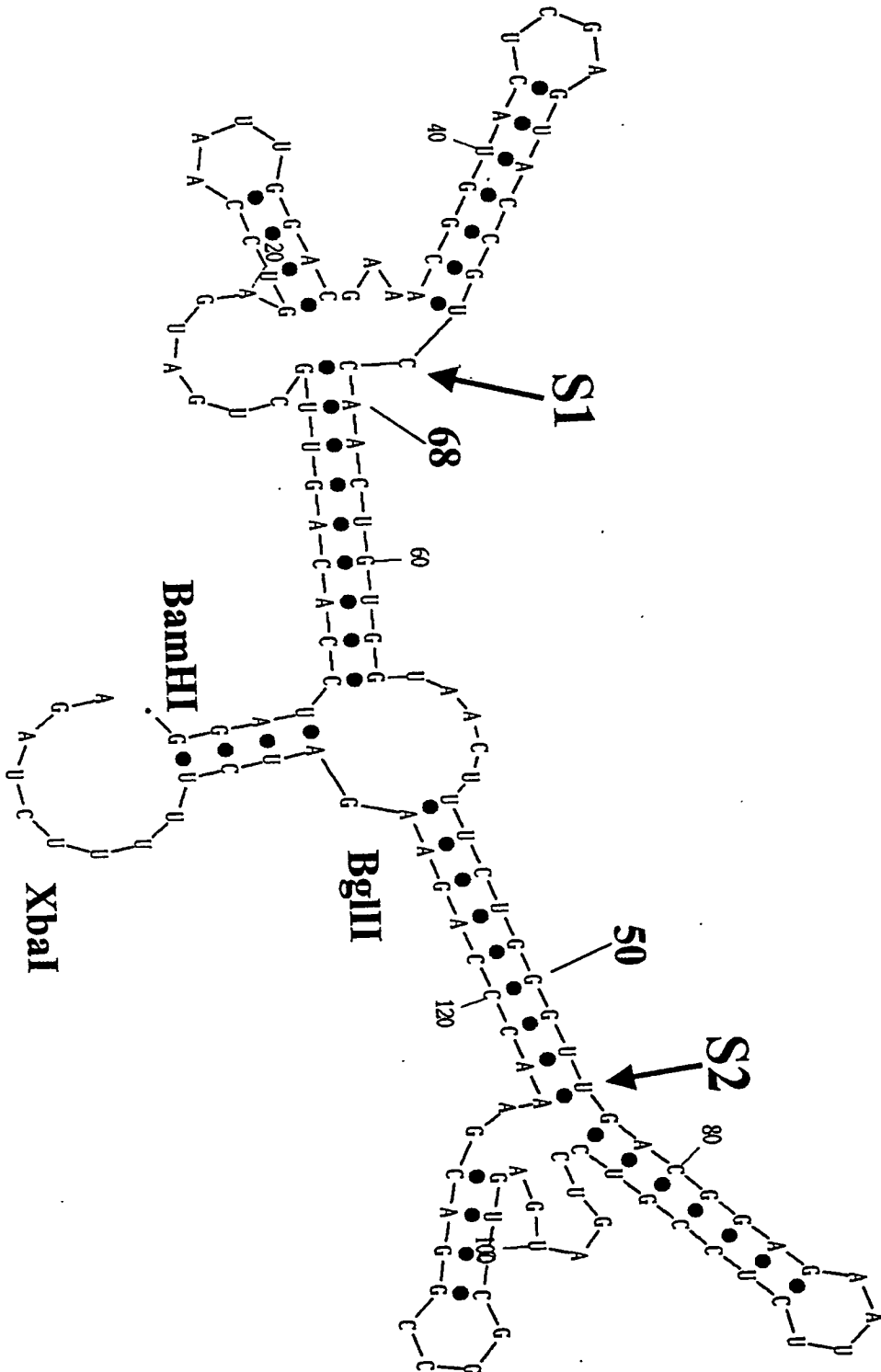
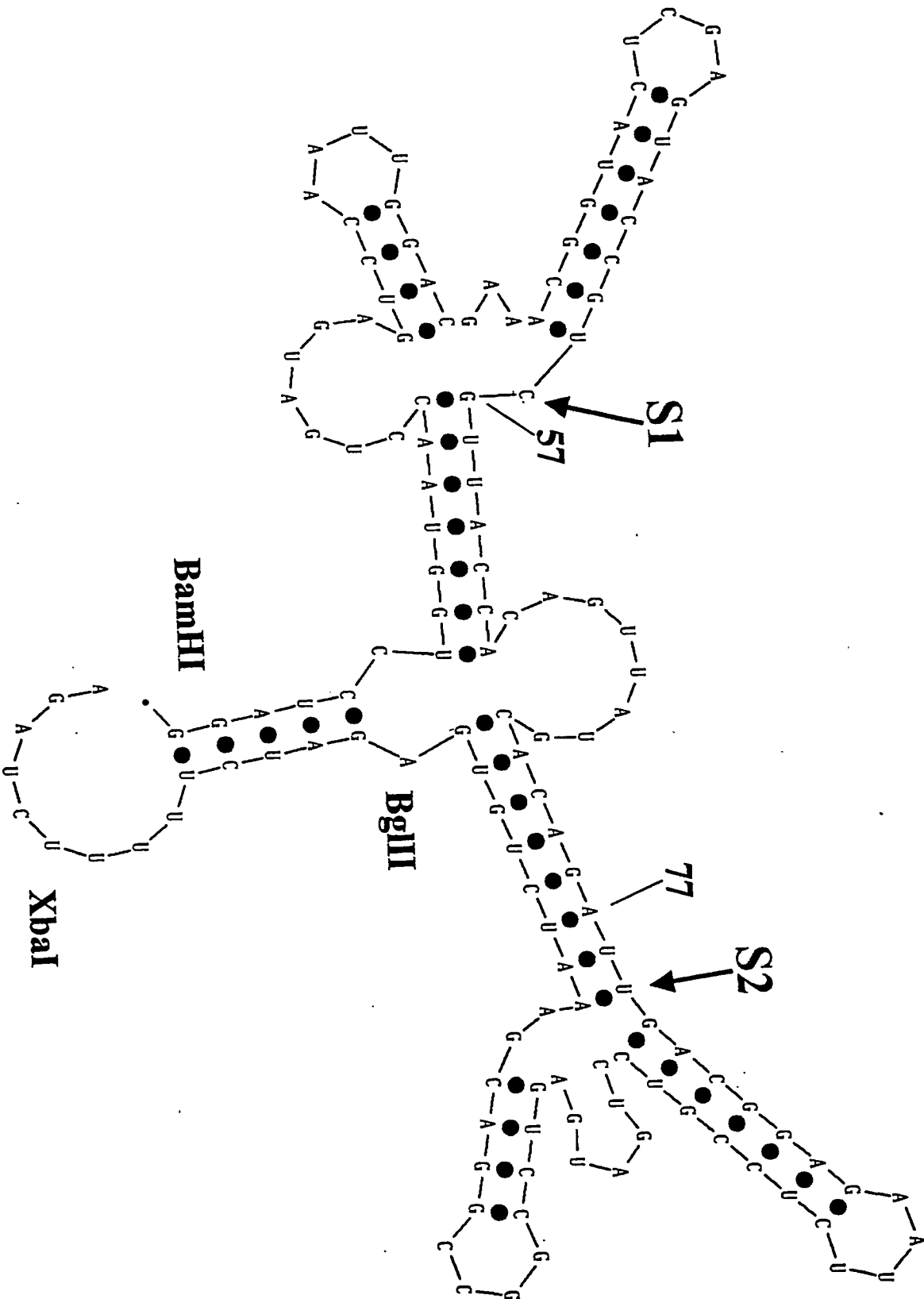


FIGURE 3

pICLIP_S/HPV16_{57-77+UU}

XbaI

FIGURE 4
p1CLIP_{AS}/HPV16_{77-57+UU}

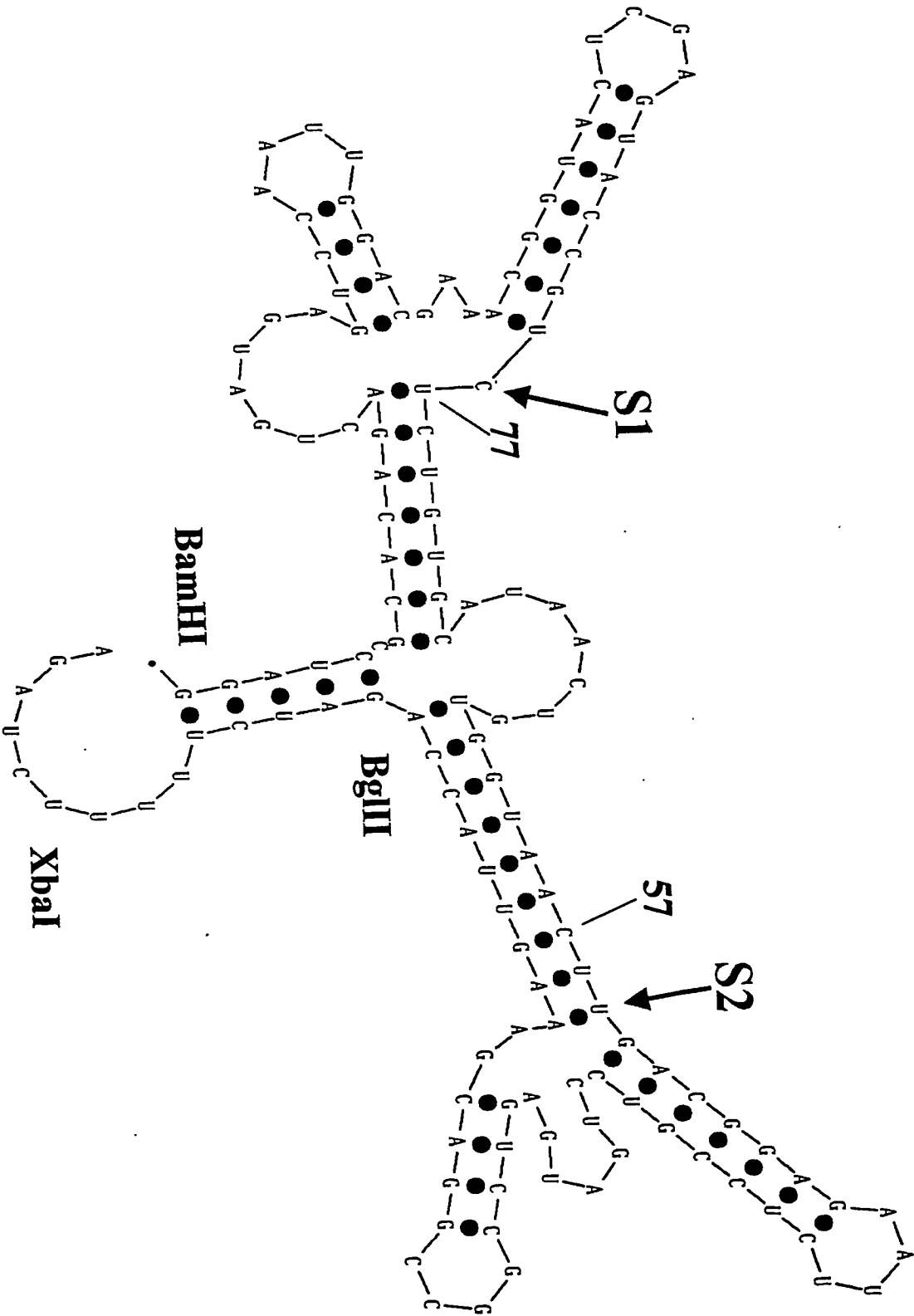


FIGURE 5

p2CLIP_S/HPV16_{C+50-68+GUU}

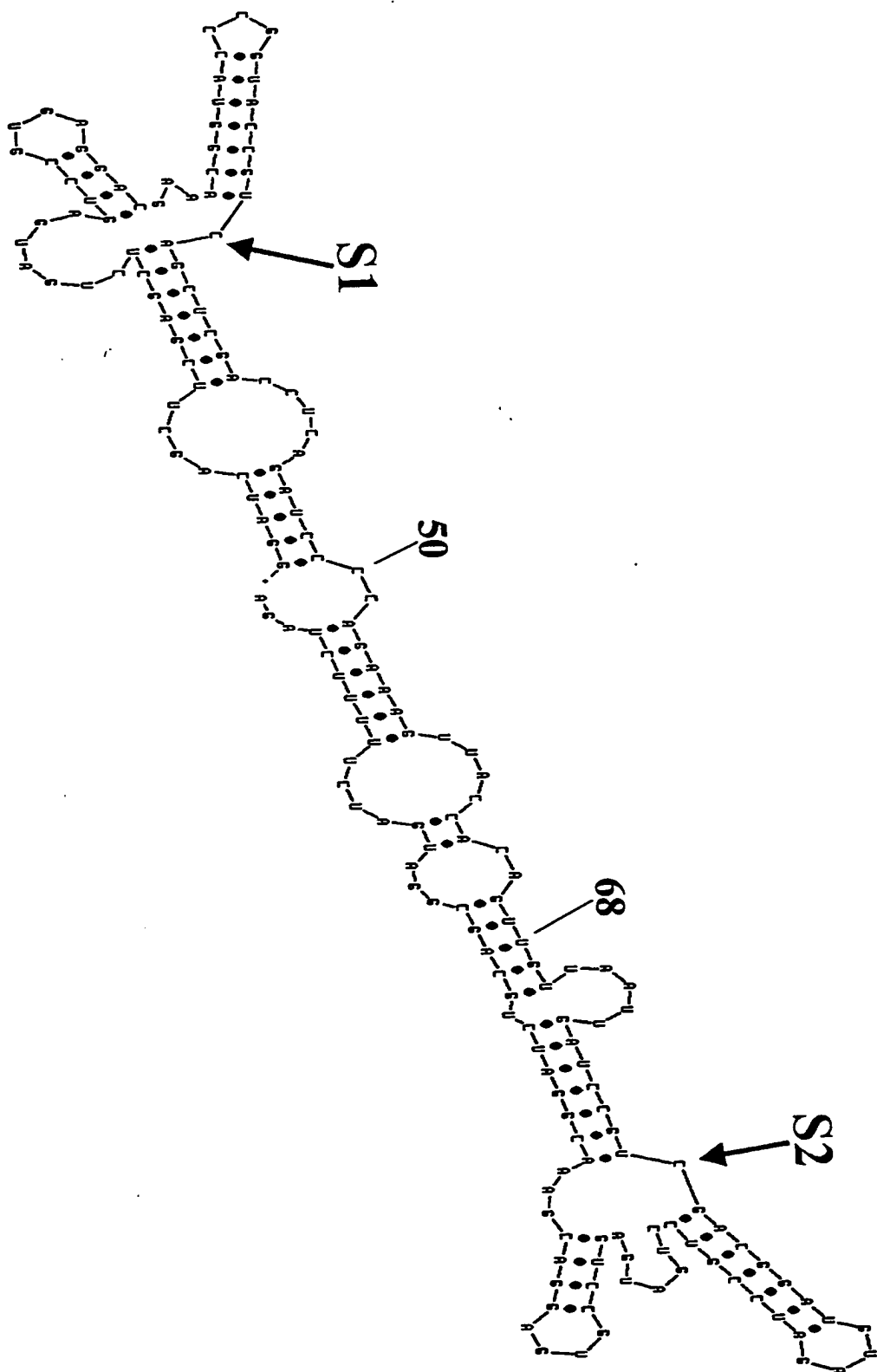


FIGURE 6
p2CLIP_{AS}/HPV16_{C+68-50+GUU}

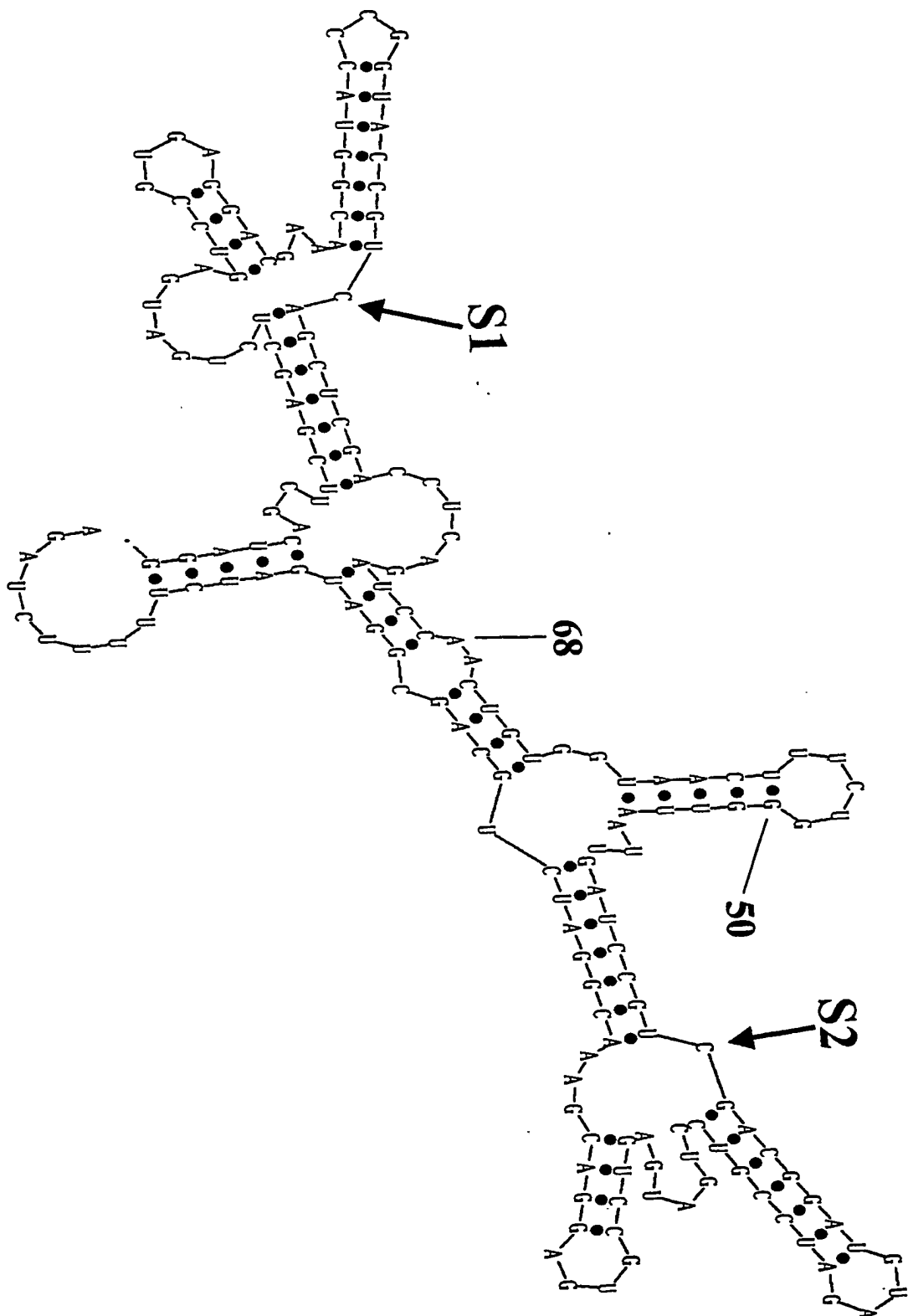


FIGURE 7

PICHO_S/HPV16_{C+50-68+GUU}

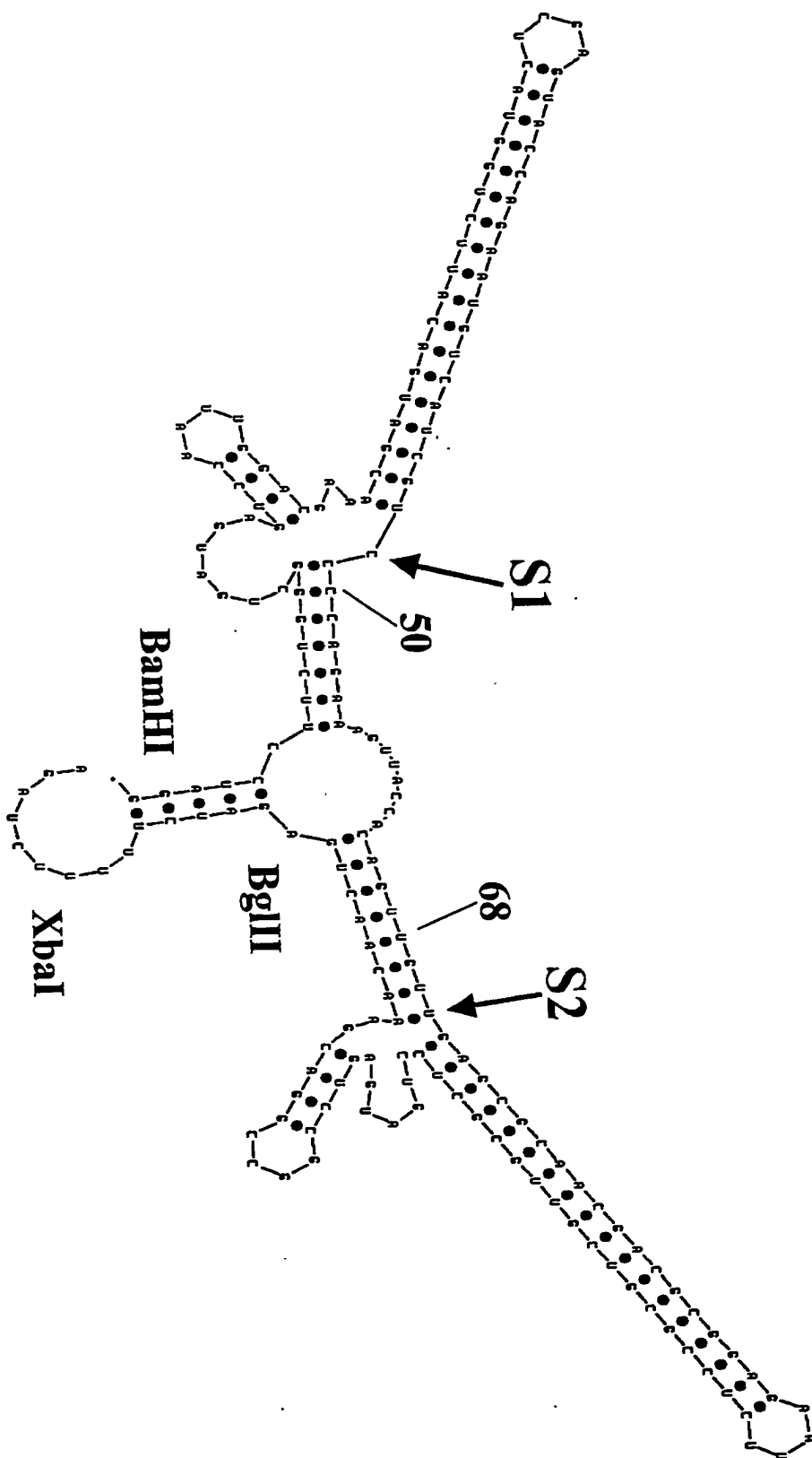
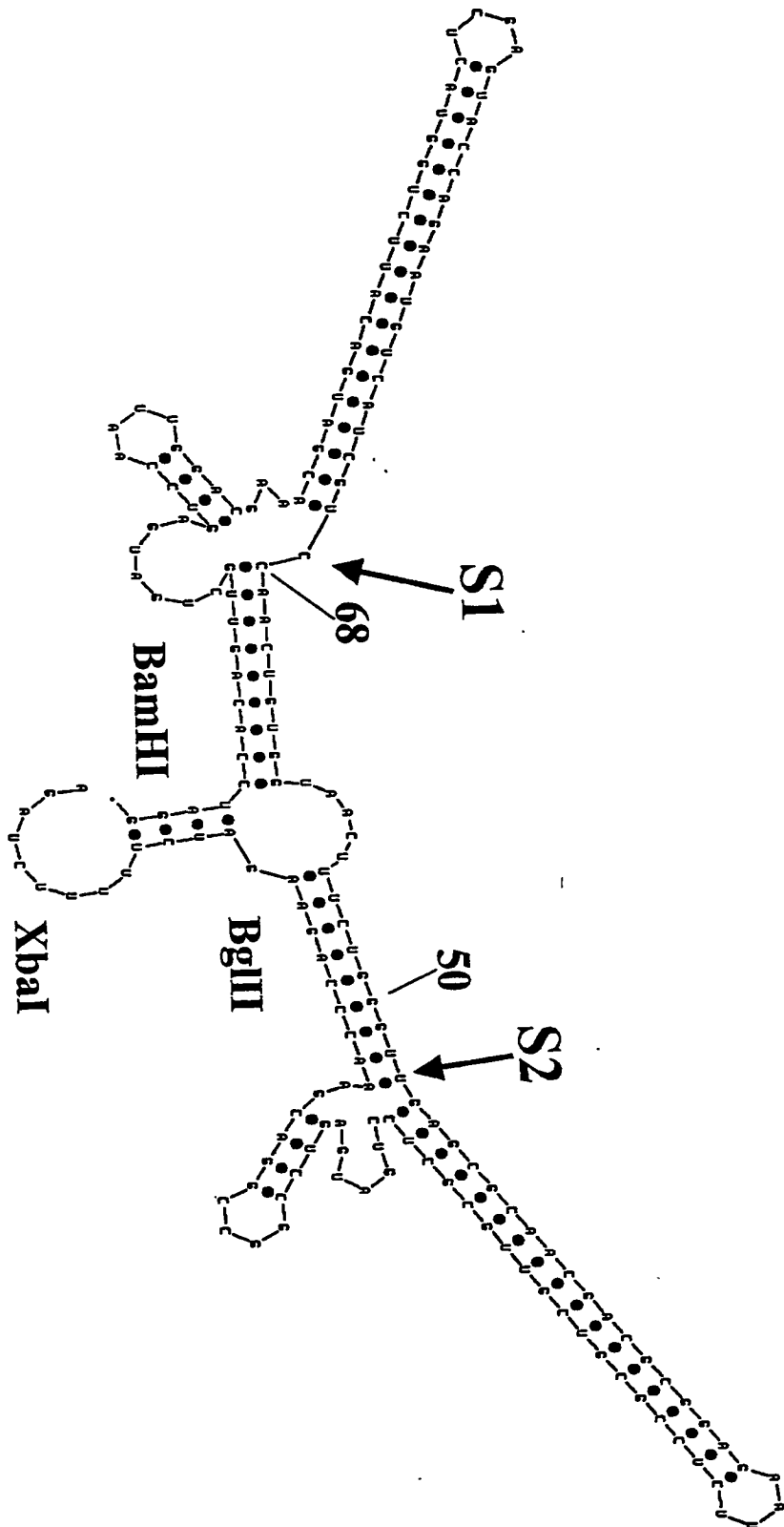


FIGURE 8

p1CHOP_{AS}/HPV16_{C+68-50+GUU}



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FIGURE 9

p2CHOP_s/HPV16_{C+50-68+GUU}

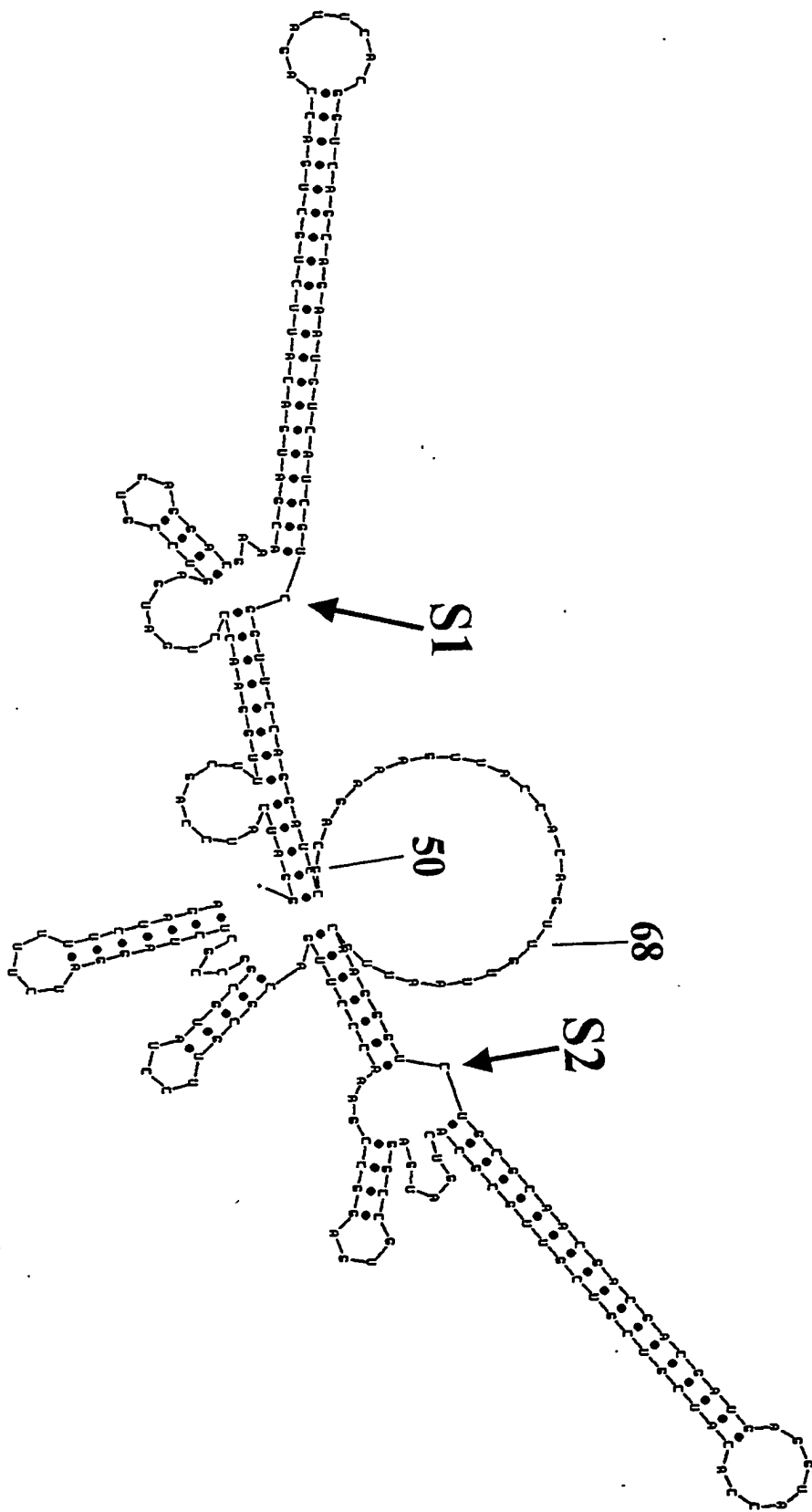


FIGURE 10
p2CHOP_{AS}/HPV16_{C+68-50+GUU}

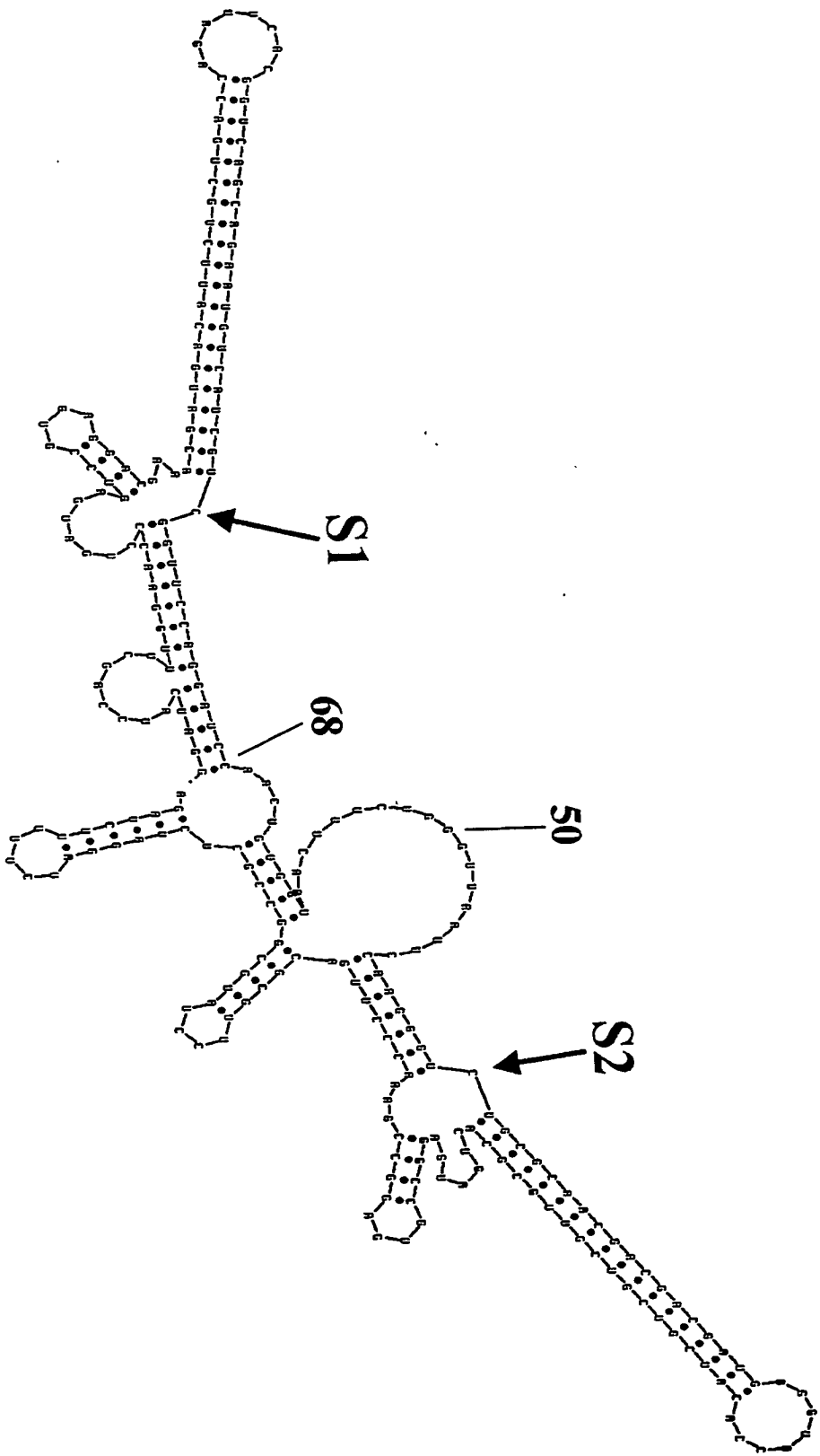
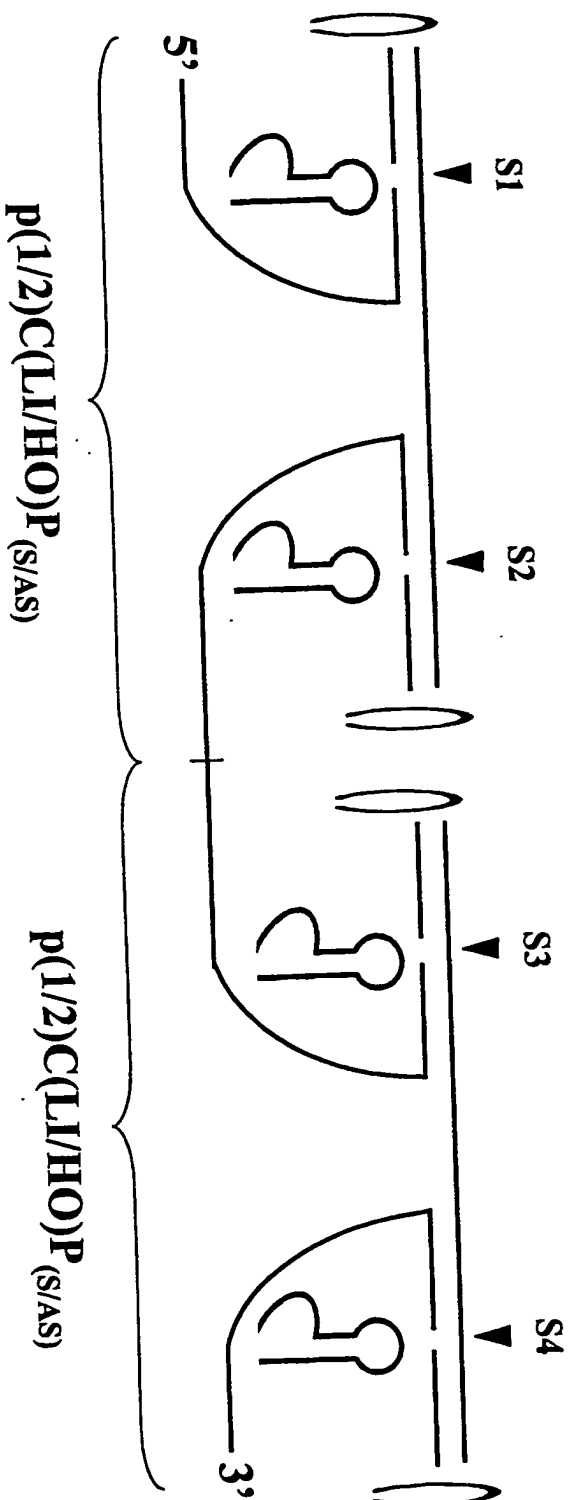


FIGURE 11

A. pSIR (Small Interfering RNA) Cassette



B. Expression Construct of pSIR Cassette

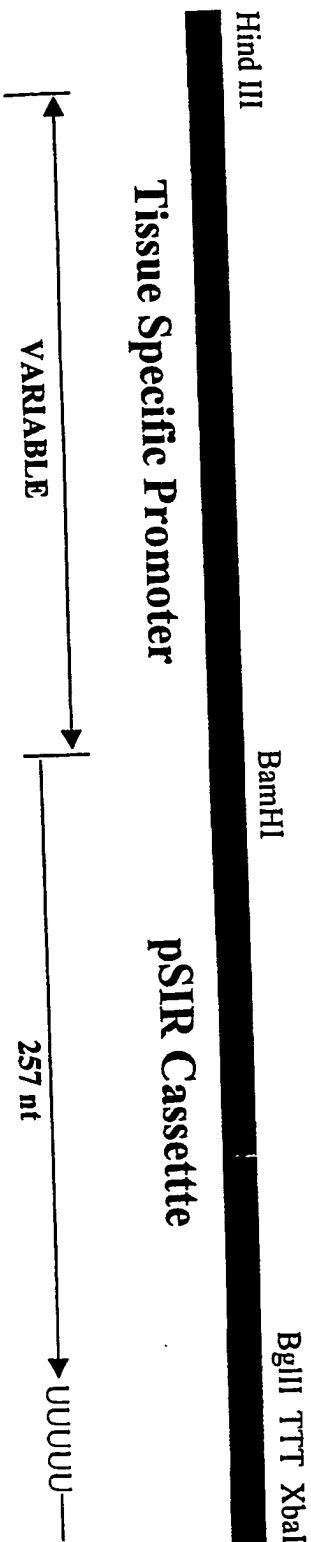


FIGURE 12

Self-Liberated Small Interfering (SI) RNA from pSIR CassettepSIR/HPV16si_{C+50-68+GUU}

S1-S2:	5' - C - CCAGAAAGUUA	CCACAGUU - GUU - 3'	HPV16 ₅₀₋₆₈
S4-S3:	3' - UUG - GGU	CUUCCAUGGUGUCAA - C - 5'	HPV16 ₆₈₋₅₀

pSIR/HPV16si_{57-77+UU}

S1-S2:	5' - GUUA	CCACAGUUAUGC	ACAGAUU - 3'	HPV16 ₅₇₋₇₇
S4-S3:	3' - UUCA	UUGGUCAUA	CGUUCU - 5'	HPV16 ₇₇₋₅₇

pSIR/HPV16si_{862-882+UU}

S1-S2:	5' - UUGGAGCUACUGUGGAGUUAUU - 3'	HBV ₈₆₂₋₈₈₂
S4-S3:	3' - UUAACCUCCGAUGACACCUCAAU - 5'	HBV ₈₈₂₋₈₆₂

FIGURE 13

Self-Liberated Small Interfering (SI) RNA from pSIR Cassette

5' Sequence of p2CLIP: 5' - AGCUCGACCUCAGAUC (Bgl II/Bam HI) -3'
 3' Sequence of p2CLIP: 5' - (Mfe I/Eco RI) AAUUGAUCCGUC-3'
 5' Sequence of p2CHOP: 5' - GGUUCCAGGAUC (Bgl II/Bam HI) -3'
 3' Sequence of p2CHOP: 5' - (Mfe I/Eco RI) AAUUCCAAGGGUC-3'

p2CLIP or p2CHOP/HPV16_{C+50-68+GUU}

5' - GAUCCCCAGAAAGUUACCACAGUUGUUAUU-3' HPV16₅₀₋₆₈
 3' - UUAAGGUCUUUCAUUGGUGUCAACACAUG-5' HPV16₆₈₋₅₀

p2CLIP or p2CHOP/HPV16_{57-77+UU}

5' - GAUCGUUACCACAGUUAUGCACAGAUUAUU-3' HPV16₅₇₋₇₇
 3' - UUAACAUGGUGUCAUACGUGUCUACAUG-5' HPV16₇₇₋₅₇

p2CLIP or p2CHOP/HBV_{862-882+UU}

5' - GAUCUUUGGAGCUACUGUGGAGUUAUUAAUU-3' HBV₈₆₂₋₈₈₂
 3' - UUAAAAACCUCGAUGACACCUCAAUACAUG-5' HBV₈₈₂₋₈₆₂

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FIGURE 14

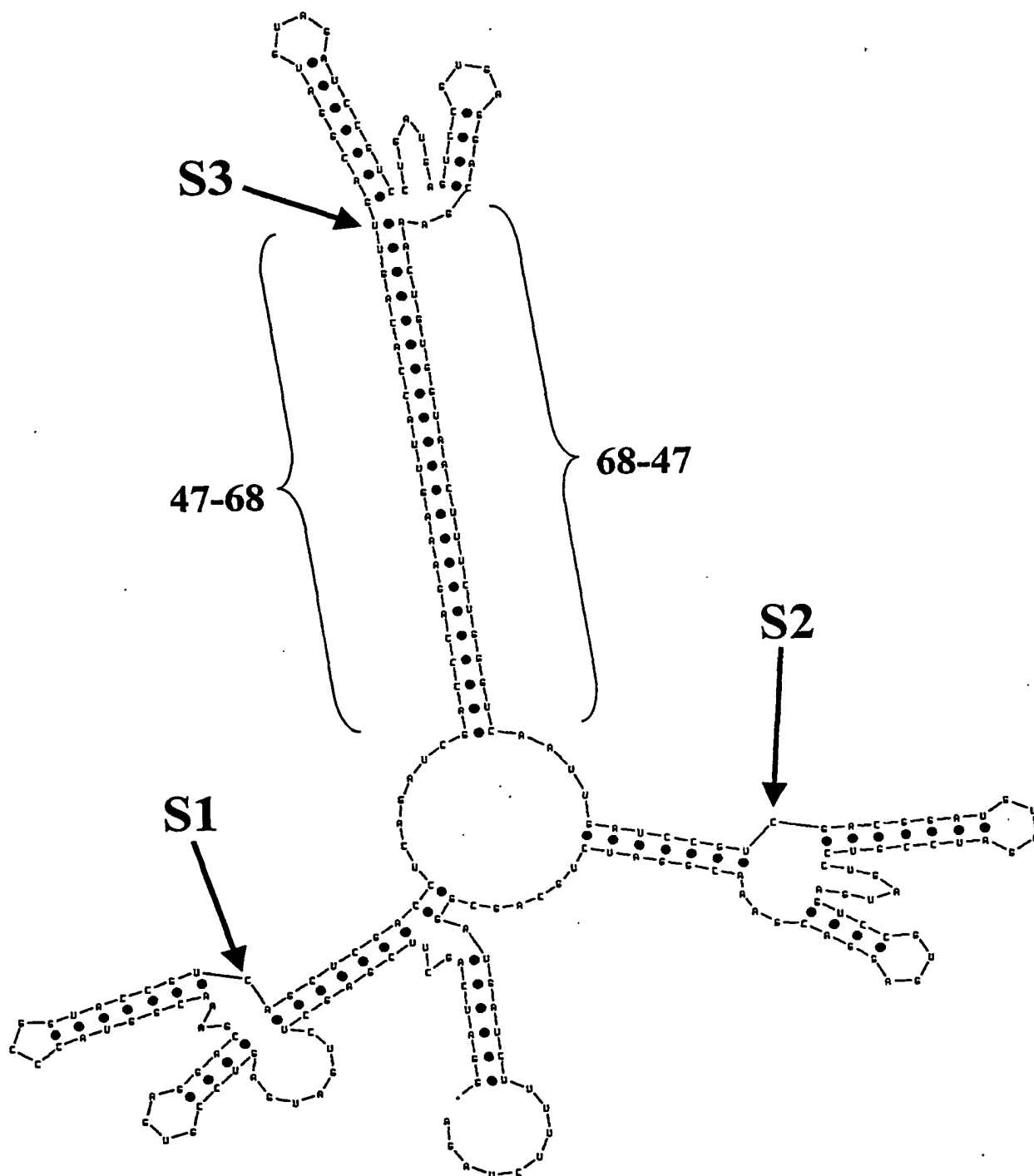
p2CLIP_{HR}/HPV16₄₇₋₆₈

FIGURE 15
p2CHOP_{HR}/HPV16₄₇₋₆₈

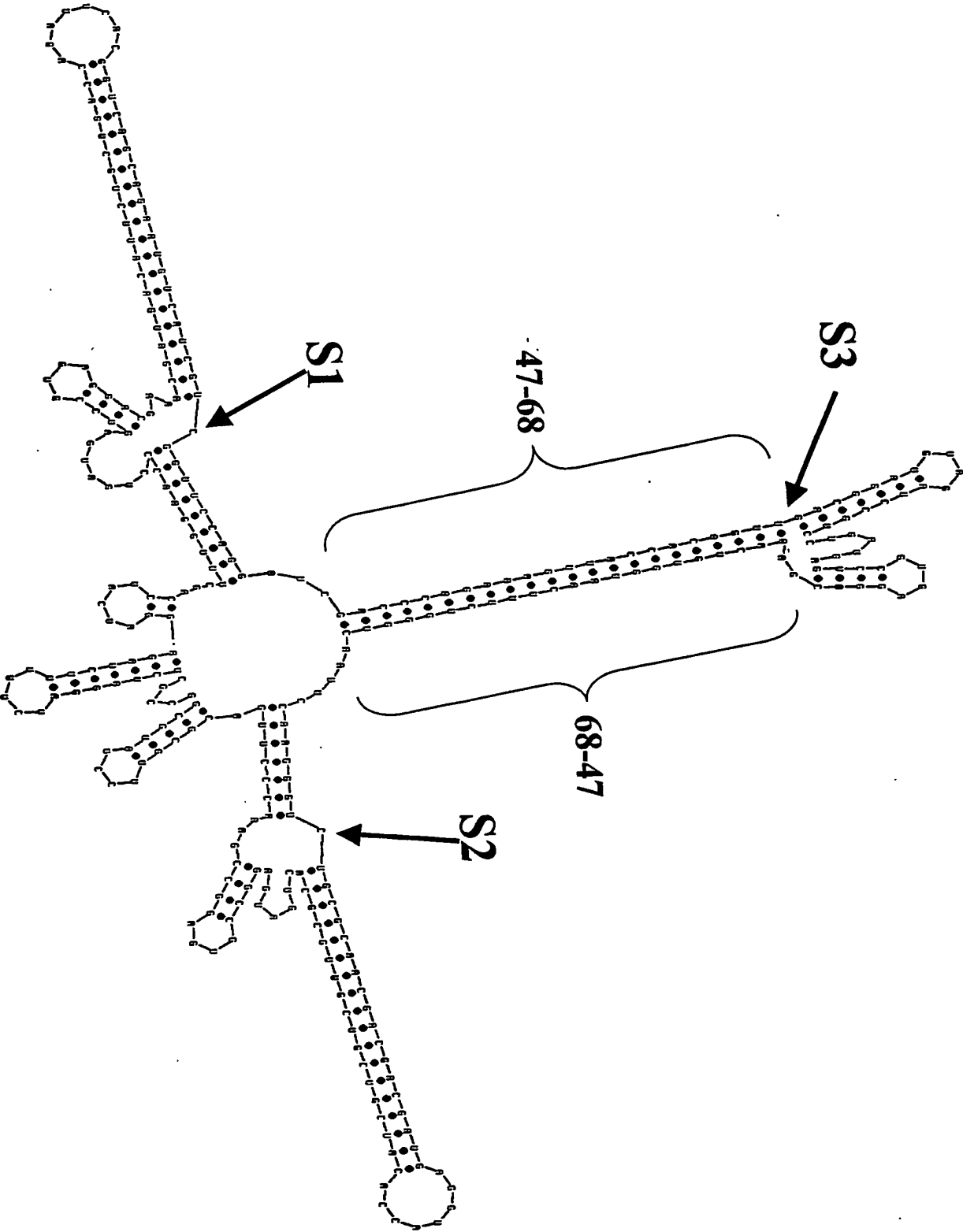


FIGURE 16

HR Inserts for Cassettes

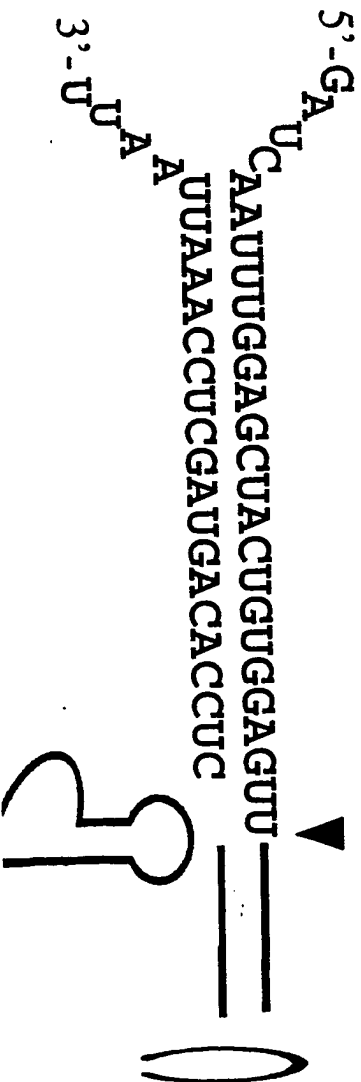
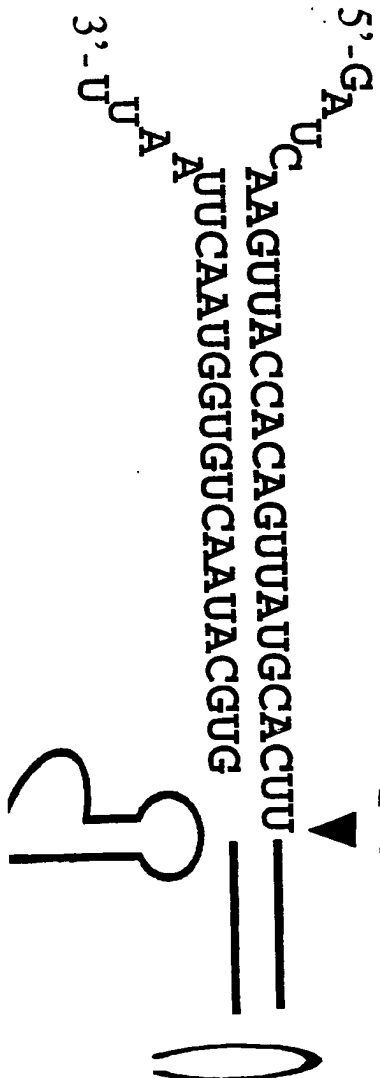
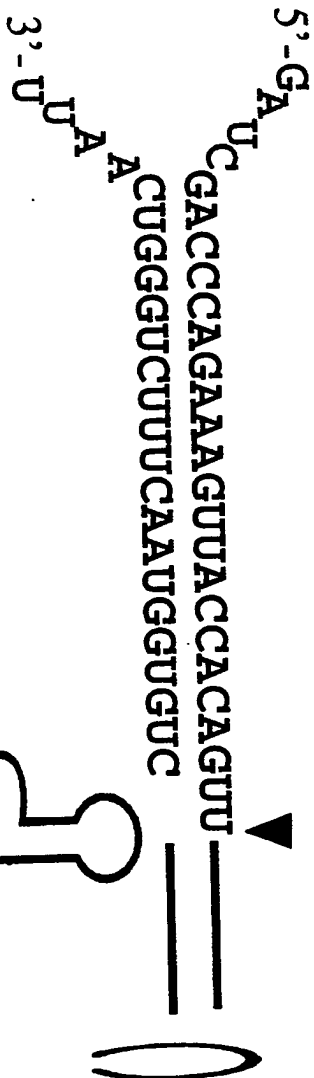


FIGURE 17

Hairpin with a Cis-Acting R_z (HR) in pSNIP Cassette

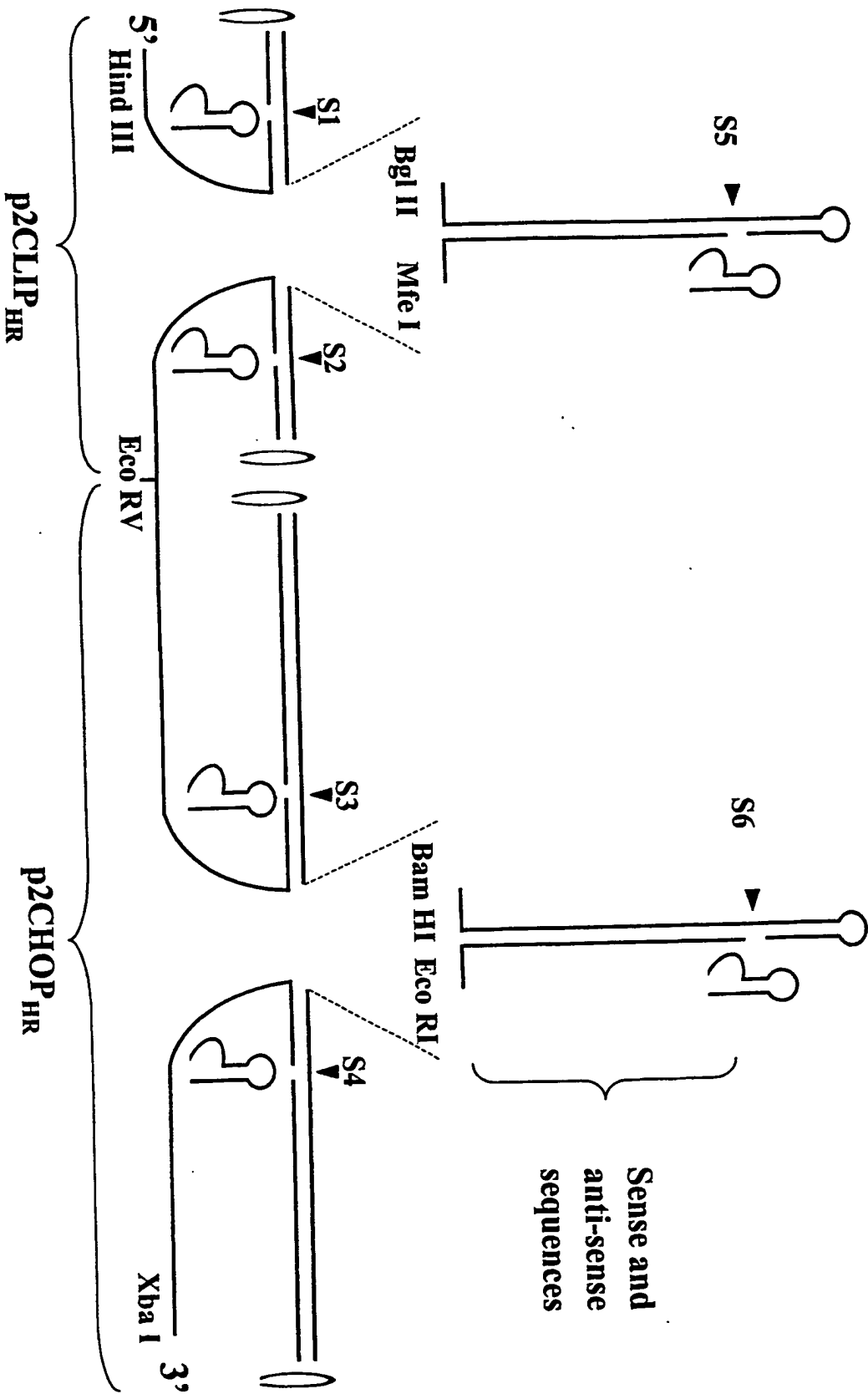


FIGURE 18

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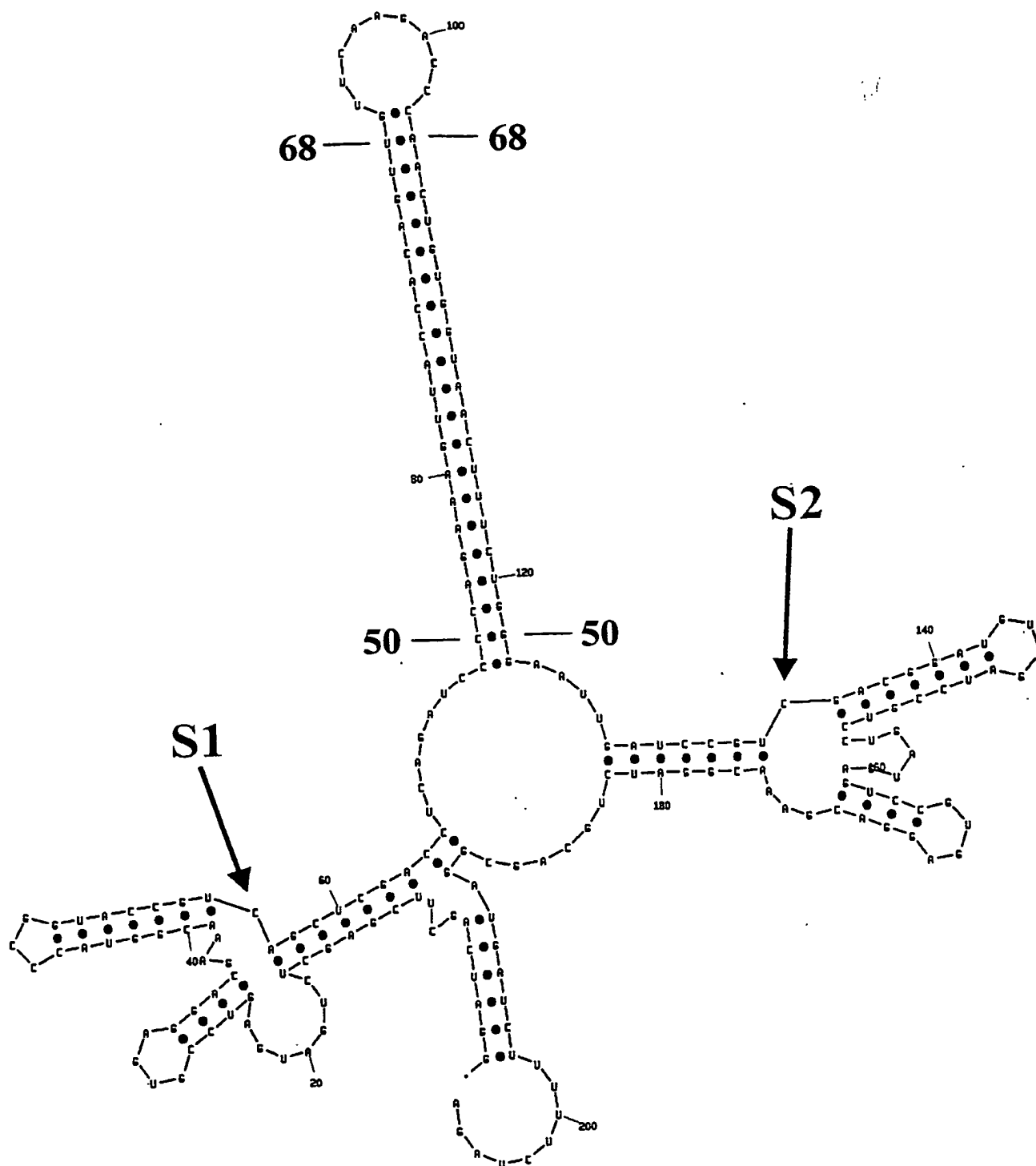
p2CLIP_{HP}/HPV16_{C+50-68+GUU}

FIGURE 19

Self-Liberated Hair-Pin Loop (HP) from pCLIP/pCHOP Cassettes

HPV16_{C+50-68+GUU}

5'-CCCAGAAAGUACCACAGUUG
3'-UUGGUCUUUCCAUGGUGUCAAC

U C A
C A G

HPV16_{57-77+UU}

5'-GUUACCACAGUUAUGCACAGA
3'-UUCAUGGUGUCAUACGUGUCU

U C A
C A G

HBV16_{862-882+UU}

5'-TTTGAGCTACTGTGAGTTA
3'-UUAACCTCGATGACACCTCAAT

U C A
C A G

FIGURE 20

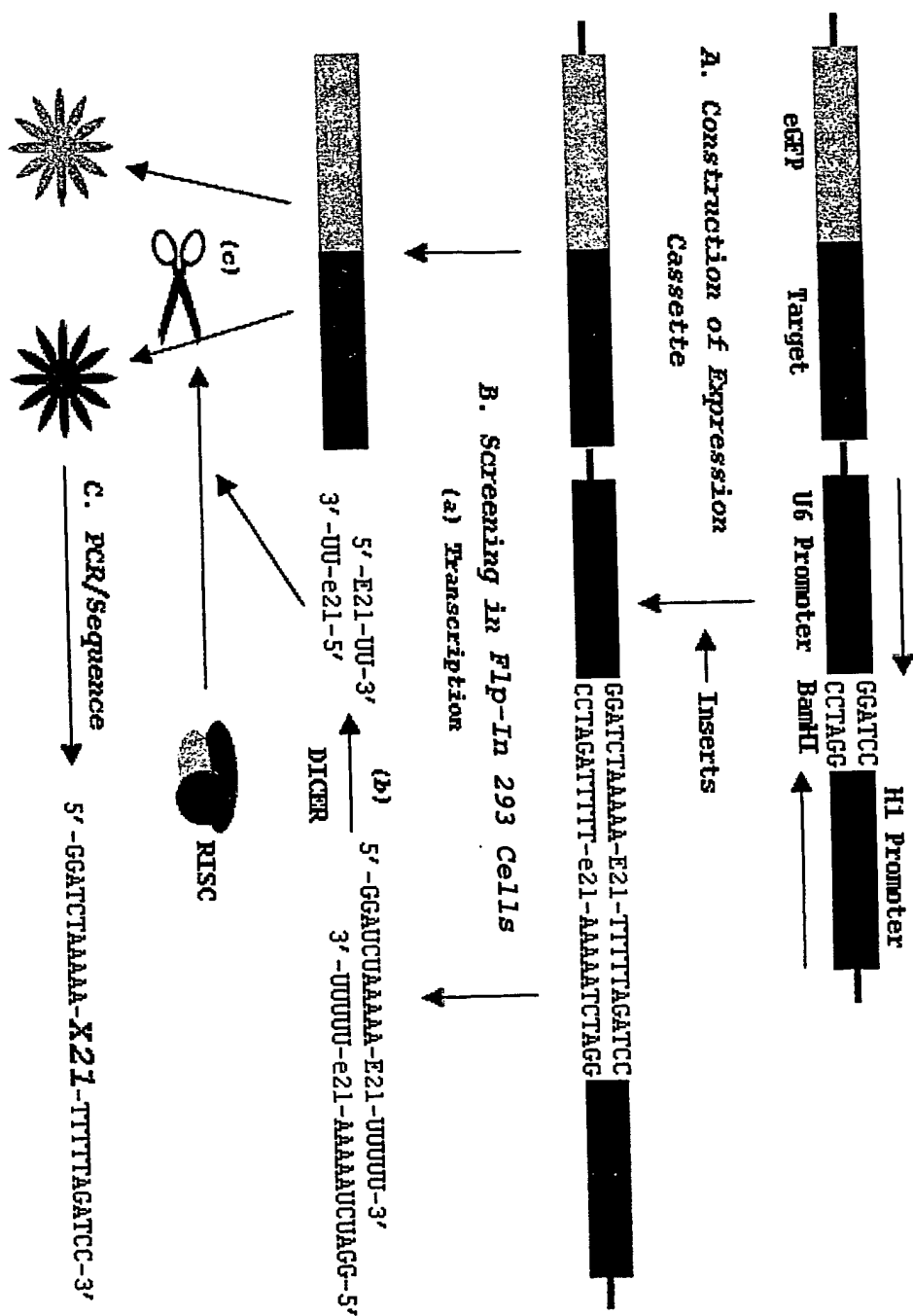


FIGURE 21

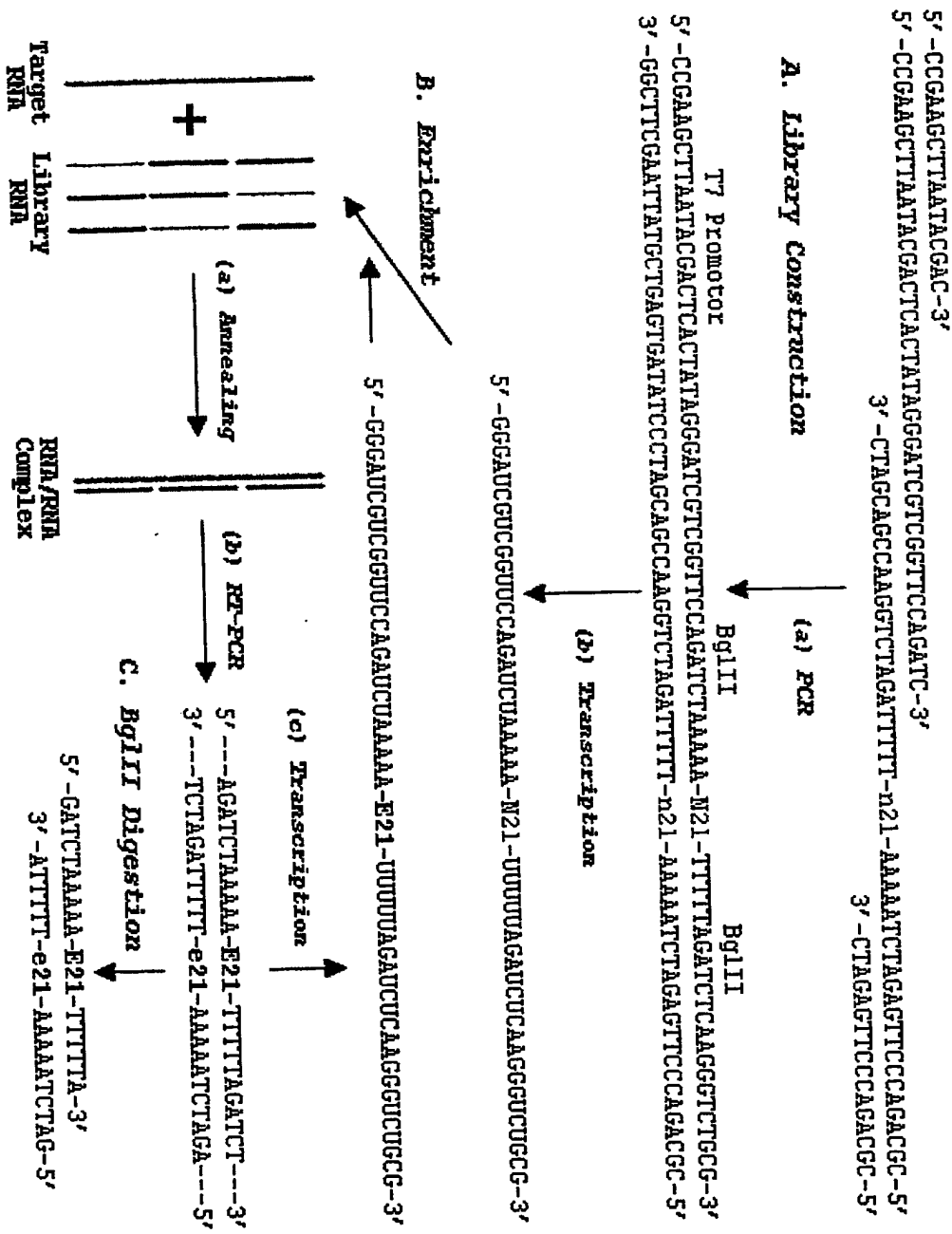
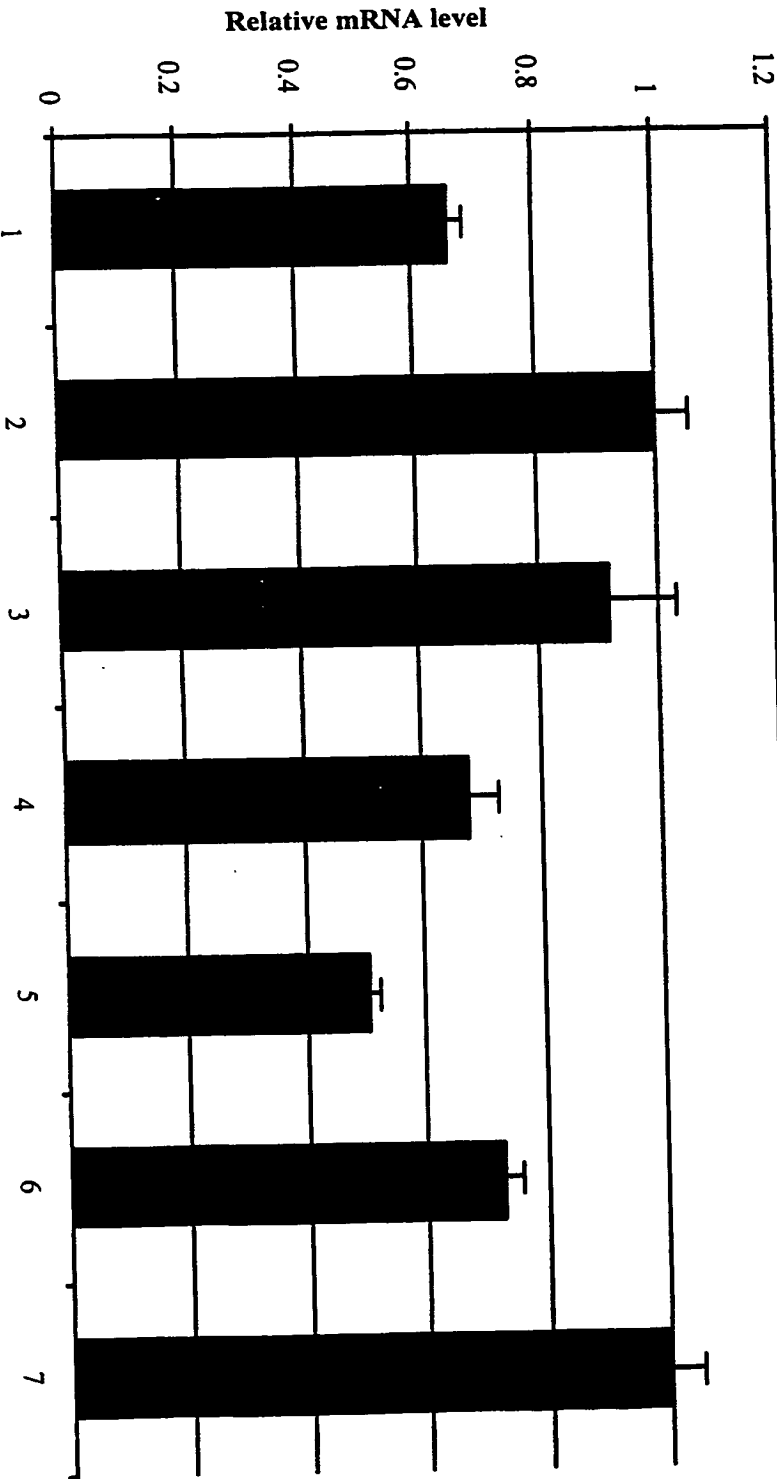


FIGURE 22
Down-Regulation of HPV16 mRNA by siRNA Constructs in Cells



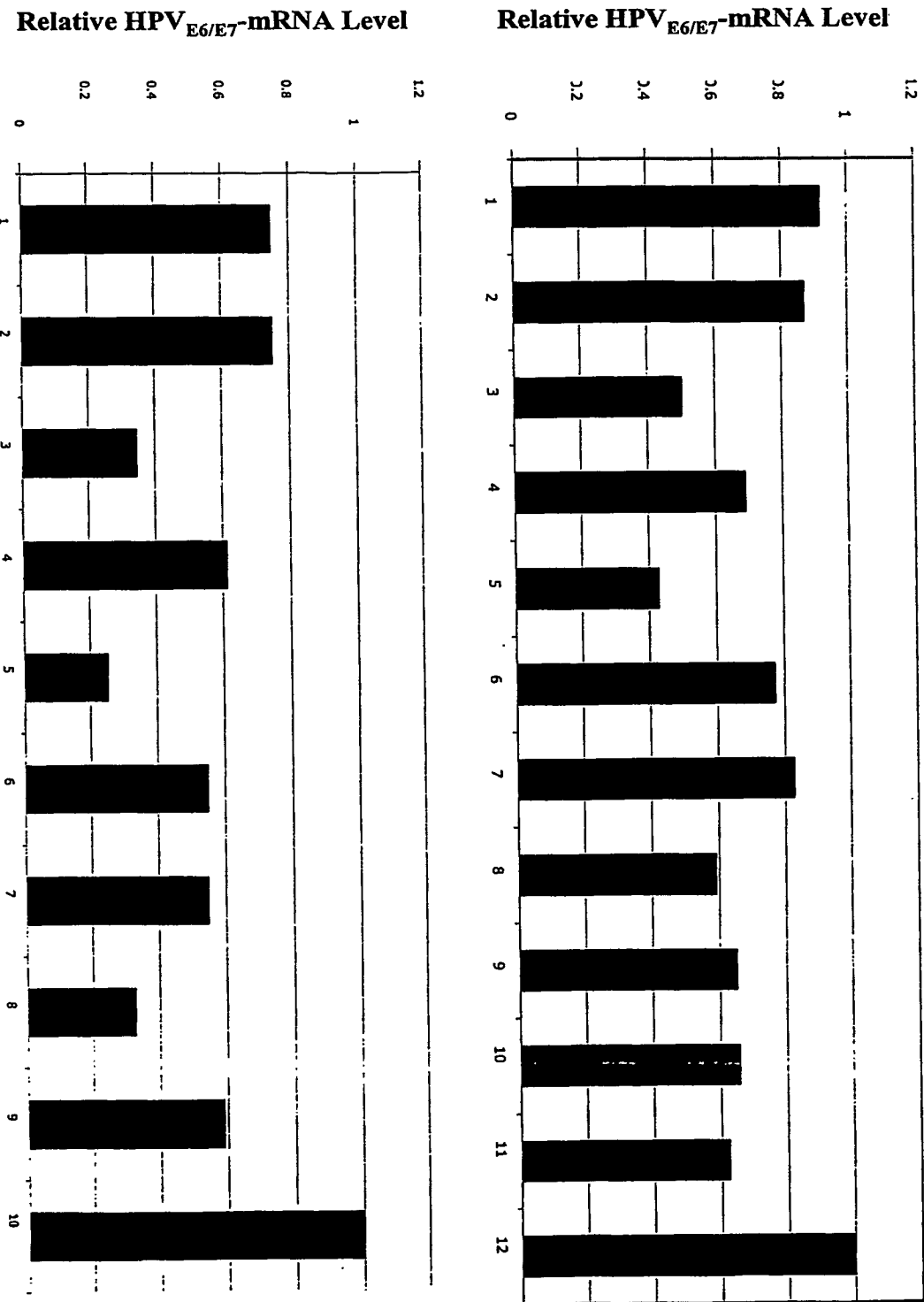


Figure 23

FIGURE 24

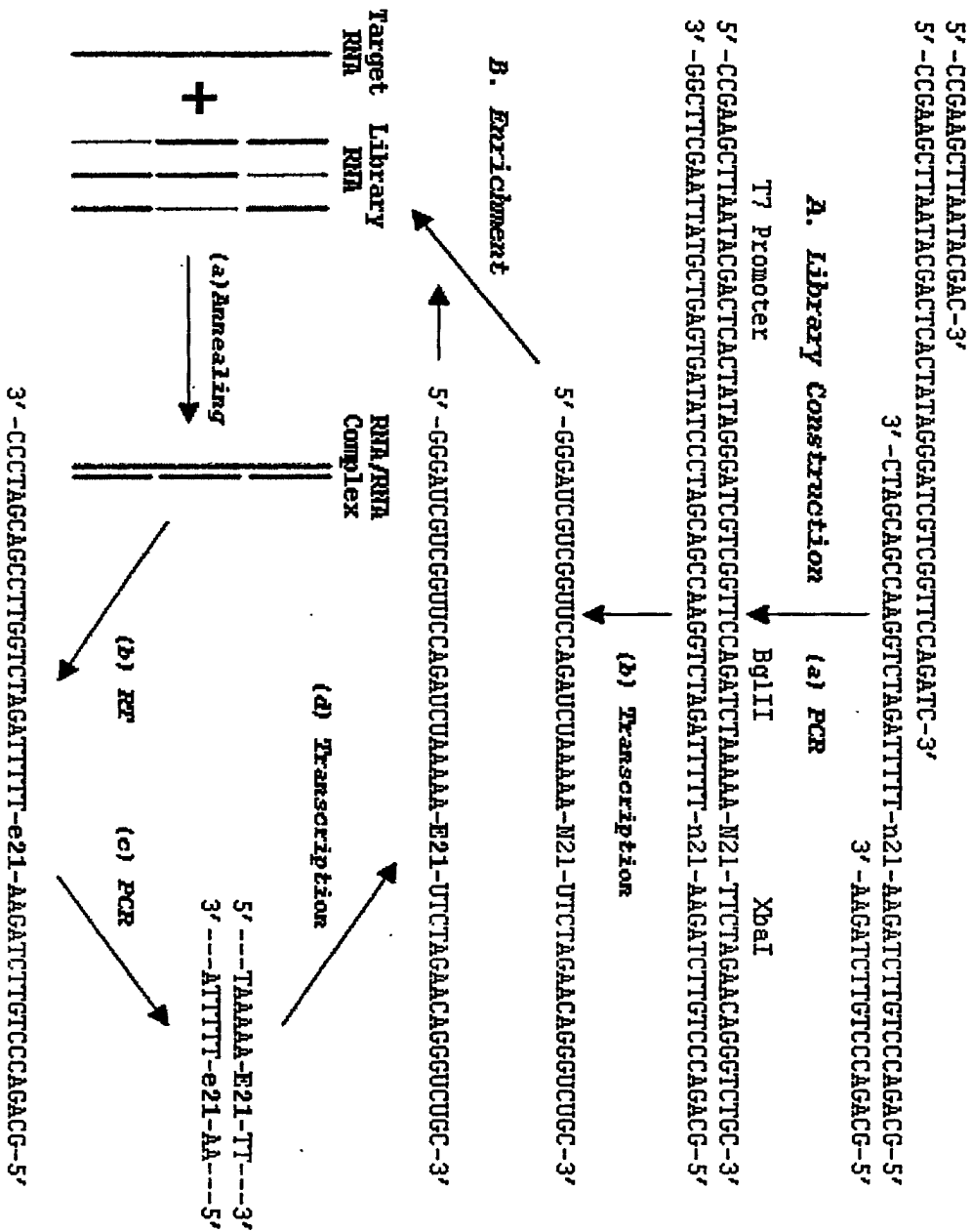


FIGURE 25

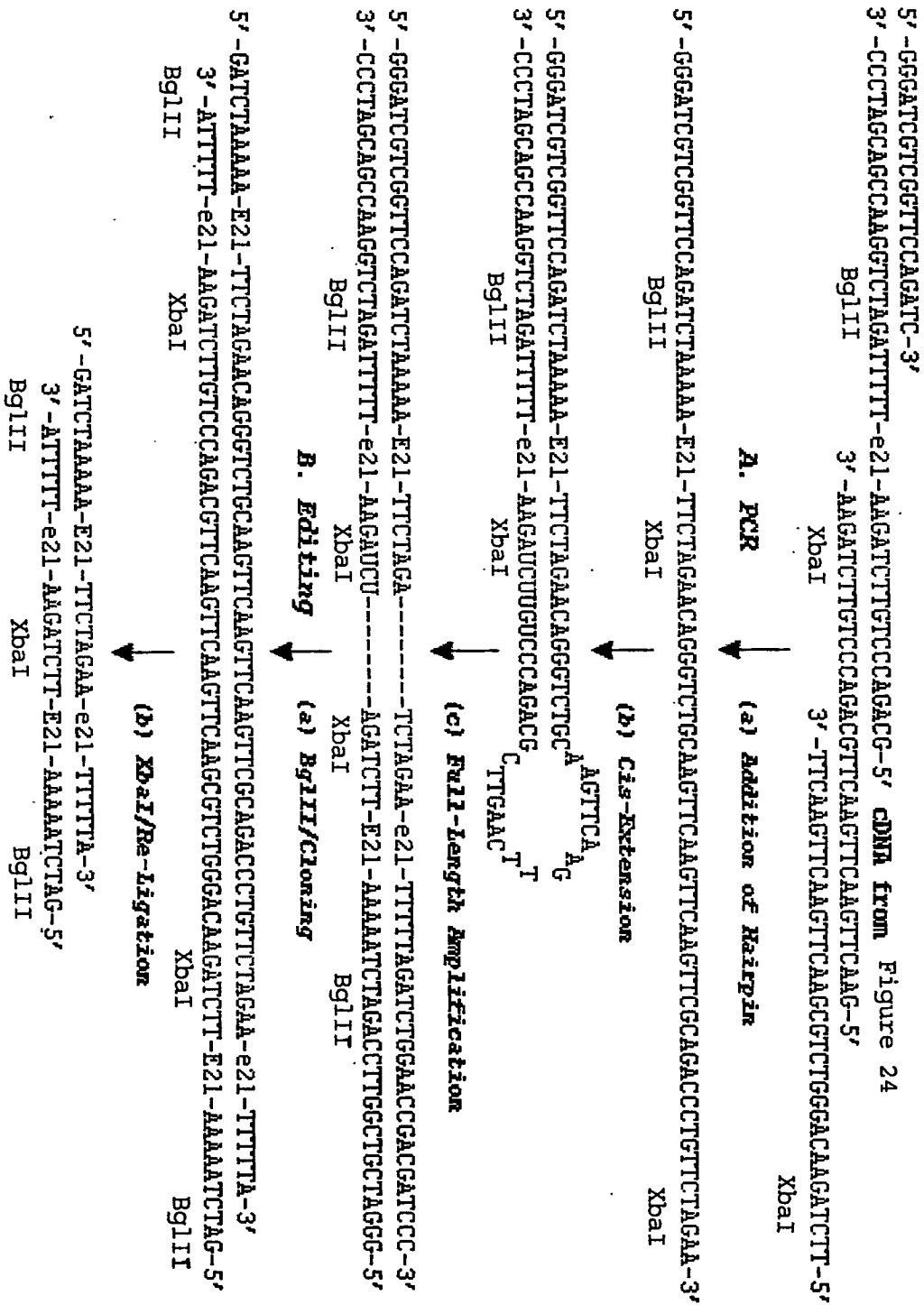


FIGURE 26

